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**D2199-31**  
**Job Sheet 190079**



Part No: D2199-31

Job Qty: 4 ~~pcs~~ 10 <sup>DAS</sup> 21 <sup>9-89</sup>

Part Name: Strut Details



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/5/19

Job Tracking No:

Due Date: 2/25/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV F IPP REV:A 15.02.05 NEW ISSUE DD VERF:JLM

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation                                         | Qty      | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | DAS Sign-off                         |
|-------|---------------------------------------------------|----------|------------|----------|-----------|---------|-----------------------|-----------|--------------------------------------|
|       |                                                   |          |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |                                      |
| 110   | Small Fab - Brake NC<br><i>15.80</i>              | 4<br>pcs | 2/25/19    |          | 0.48      | 1.23    | Small Fab - Brake - 1 |           | <i>58</i> FEB 11 2019<br><i>9-89</i> |
|       |                                                   |          |            |          |           |         | Small Fab - Brake - 2 |           |                                      |
|       |                                                   |          |            |          |           |         | Small Fab - Brake - 3 |           |                                      |
| 120   | QC 5                                              | 4<br>pcs | 2/25/19    |          | 0.00      | 0.00    | QC 5 - 10             |           | <i>19.02.14</i>                      |
|       |                                                   |          |            |          |           |         | QC 5 - 12             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 17             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 18             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 19             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 22             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 24             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 3              |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 38             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 42             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 43             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 49             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 51             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 58             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 5 - 68             |           |                                      |
| 130   | Powdercoat - 3 Grey Sand - B4B<br><i>M 138839</i> | 4<br>pcs | 2/25/19    |          | 0.00      | 0.17    | Powdercoat - 1 - B4B  |           | <i>19-2-19</i>                       |
|       |                                                   |          |            |          |           |         | Powdercoat - 2 - B4B  |           |                                      |
|       |                                                   |          |            |          |           |         | Powdercoat - 3 - B4B  |           |                                      |
|       |                                                   |          |            |          |           |         | Powdercoat - 4 - B4B  |           |                                      |
| 140   | QC 3<br><i>START: 8:50 ON 1:30 FINISH: 9:30</i>   | 4<br>pcs | 2/25/19    |          | 0.00      | 0.00    | QC 3 - 10             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 3 - 13             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 3 - 15             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 3 - 17             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 3 - 18             |           |                                      |
|       |                                                   |          |            |          |           |         | QC 3 - 2              |           |                                      |

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|     |                             |   |         |           |                        |
|-----|-----------------------------|---|---------|-----------|------------------------|
|     |                             |   |         | QC 3 - 26 |                        |
|     |                             |   |         | QC 3 - 28 |                        |
|     |                             |   |         | QC 3 - 3  |                        |
|     |                             |   |         | QC 3 - 30 |                        |
|     |                             |   |         | QC 3 - 34 |                        |
|     |                             |   |         | QC 3 - 36 |                        |
|     |                             |   |         | QC 3 - 38 |                        |
|     |                             |   |         | QC 3 - 41 |                        |
|     |                             |   |         | QC 3 - 51 |                        |
|     |                             |   |         | QC 3 - 58 |                        |
|     |                             |   |         | QC 3 - 59 |                        |
|     |                             |   |         | QC 3 - 6  |                        |
|     |                             |   |         | QC 3 - 68 | FEB 20 2019 68         |
|     |                             |   |         | QC 3 - 9  | 9-89                   |
| 150 | Packaging 3-1 - Stock - B4B | 4 | 2/25/19 | 0.00 0.00 | Packaging 3 - 1 - B4B  |
|     | pcs                         |   |         |           | Packaging 3 - 2 - B4B  |
|     |                             |   |         |           | Packaging 3 - 3 - B4B  |
|     |                             |   |         |           | Packaging 3 - 4 - B4B  |
|     |                             |   |         |           | Packaging 3 - 5 - B4B  |
|     |                             |   |         |           | Packaging 3 - 6 - B4B  |
|     |                             |   |         |           | Packaging 3 - 7 - B4B  |
|     |                             |   |         |           | Packaging 3 - 8 - B4B  |
|     |                             |   |         |           | Packaging 3 - 9 - B4B  |
|     |                             |   |         |           | Packaging 3 - 10 - B4B |
|     |                             |   |         |           | Packaging 3 - 11 - B4B |
|     |                             |   |         |           | Packaging 3 - 12 - B4B |
|     |                             |   |         |           | Packaging 3 - 13 - B4B |
|     |                             |   |         |           | Packaging 3 - 14 - B4B |
|     |                             |   |         |           | Packaging 3 - 15 - B4B |
|     |                             |   |         |           | Packaging 3 - 16 - B4B |
|     |                             |   |         |           | Packaging 3 - 17 - B4B |
|     |                             |   |         |           | Packaging 3 - 18 - B4B |
|     |                             |   |         |           | Packaging 3 - 19 - B4B |
|     |                             |   |         |           | Packaging 3 - 20 - B4B |
|     |                             |   |         |           | Packaging 3 - 21 - B4B |
|     |                             |   |         |           | Packaging 3 - 22 - B4B |
|     |                             |   |         |           | Packaging 3 - 23 - B4B |
|     |                             |   |         |           | Packaging 3 - 24 - B4B |
|     |                             |   |         |           | Packaging 3 - 25 - B4B |
|     |                             |   |         |           | Packaging 3 - 26 - B4B |
|     |                             |   |         |           | Packaging 3 - 27 - B4B |
|     |                             |   |         |           | Packaging 3 - 28 - B4B |
|     |                             |   |         |           | Packaging 3 - 29 - B4B |

|                                                                                                                                                                                                                                                                                                                                                                                                |                             |                    |                          |                        |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|--------------------------|------------------------|-----------------|
|                                                                                                                                                                                                                                                                                                                                                                                                |                             |                    |                          | Packaging 3 - 30 - B4B |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                |                             |                    |                          | Packaging 3 - 31 - B4B |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                |                             |                    |                          | Packaging 3 - 32 - B4B |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                |                             |                    |                          | Packaging 3 - 33 - B4B |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                |                             |                    |                          | Packaging 3 - 34 - B4B |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                |                             |                    |                          | Packaging 3 - 35 - B4B |                 |
| 160 QC 21 - SA                                                                                                                                                                                                                                                                                                                                                                                 | 4 pcs                       | 2/25/19            | 0.00 0.00                | QC 21 - SA - 21        |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                |                             |                    |                          | QC 21 - SA - 70        | DAS FEB 20 2019 |
|                                                                                                                                                                                                                                                                                                                                                                                                |                             |                    |                          | QC 21 - SA - 53        | 21              |
| Part Op 110 - (Punch ends and deburr as per dwg) Punch per Dwg D2199 and Spec Control Dwg D2638<br>Descriptions: 120 - (QC5- Inspect part completeness to step on W/O)<br>130 - (Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3) START TIME: _____<br>140 - (QC3- Inspect Part Finish)<br>150 - (Identify as per dwg & Stock Location: _____)<br>160 - (QC21- Final Inspection - Work Order Release) |                             |                    |                          |                        |                 |
| <b>Job BOM</b>                                                                                                                                                                                                                                                                                                                                                                                 |                             |                    |                          |                        |                 |
| <b>Part / Item</b>                                                                                                                                                                                                                                                                                                                                                                             | <b>Component Name</b>       | <b>Quantity</b>    | <b>Operation</b>         | <b>Container</b>       |                 |
| M304TR0.750W.049                                                                                                                                                                                                                                                                                                                                                                               | 304 Round Tube .750 X .049W | 5.2000 ft (1.3 ea) | 110-Small Fab - Brake NC | 5126573                |                 |
| <b>Job Allocations</b>                                                                                                                                                                                                                                                                                                                                                                         |                             |                    |                          |                        |                 |
| <b>Operation</b>                                                                                                                                                                                                                                                                                                                                                                               | <b>Component Part</b>       | <b>Required</b>    | <b>Inventory</b>         | <b>Allocated</b>       |                 |
| 110-Small Fab - Brake NC                                                                                                                                                                                                                                                                                                                                                                       | M304TR0.750W.049            | 5                  | 213                      | 0                      |                 |
| <b>Part Specifications</b>                                                                                                                                                                                                                                                                                                                                                                     |                             |                    |                          |                        |                 |
| Specifications could not be found.                                                                                                                                                                                                                                                                                                                                                             |                             |                    |                          |                        |                 |

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Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |